

**ANTENNA SPECIFICATION SHEET**

**FOR**

**MOUNTAINTOP DRIVE**

## AMERICELL®

AMERICELL panels are part of a series of Kathrein Scala Division professional antenna products for wireless communications, featuring:

- Less tower loading than earlier panel designs, thanks to smaller size and lighter weight.
- Very rugged construction using materials selected for long life and reliability, including silver-plated copper dipoles, alodined aluminum backplate, and gray fiberglass radomes.
- Superior electrical specifications including low VSWR, wide bandwidth and flat frequency response.

### Specifications:

|                            |   |
|----------------------------|---|
| Frequency range            | 440–470 MHz (broadband)   |
| Gain                       | 9 dBd   |
| Impedance                  | 50 ohms   |
| VSWR                       | < 1.5:1   |
| Polarization               | Vertical  |
| Front-to-back ratio        | >18 dB  |
| Maximum input power        | 500 watts (at 50°C)   |
| H-plane beamwidth          | 200 degrees (half-power)  |
| E-plane beamwidth          | 15 degrees (half-power)   |
| Connector                  | 7/16 DIN female   |
| Weight                     | 30.9 lb (14 kg)   |
| Dimensions                 | 101.5 x 10 x 4.1 inches<br>(2570 x 254 x 105 mm)                                      |
| Equivalent flat plate area | 9.24 ft <sup>2</sup> (0.856 m <sup>2</sup> )  |
| Wind survival rating*      | 120 mph (200 kph)   |
| Shipping dimensions        | 113 x 11 x 6 inches<br>(2870 x 280 x 153 mm)  |
| Shipping weight            | 44 lb (20 kg)   |
| Mounting                   | Fixed and tilt-mount options are available for 2 to 4.6 inch (50 to 115 mm) OD masts. |

See reverse for order information.

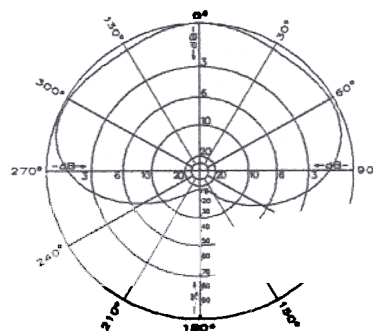
\* Mechanical design is based on environmental conditions as stipulated in EIA-222-F (June 1996) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.

AMERICELL is a registered trademark of Kathrein Inc., Scala Division.

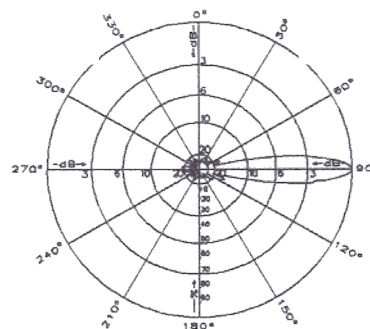


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## AP9-455/200 PANEL ANTENNA 9 dBd gain 440–470 MHz

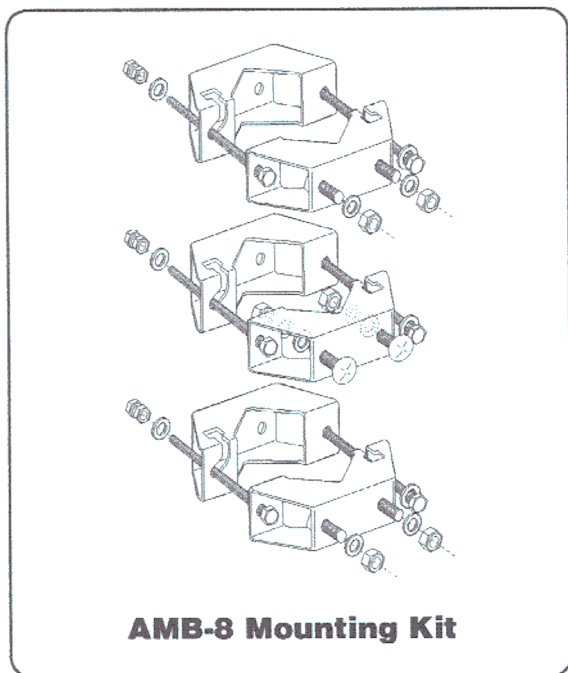


H-plane  
Horizontal pattern – V-polarization



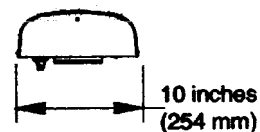
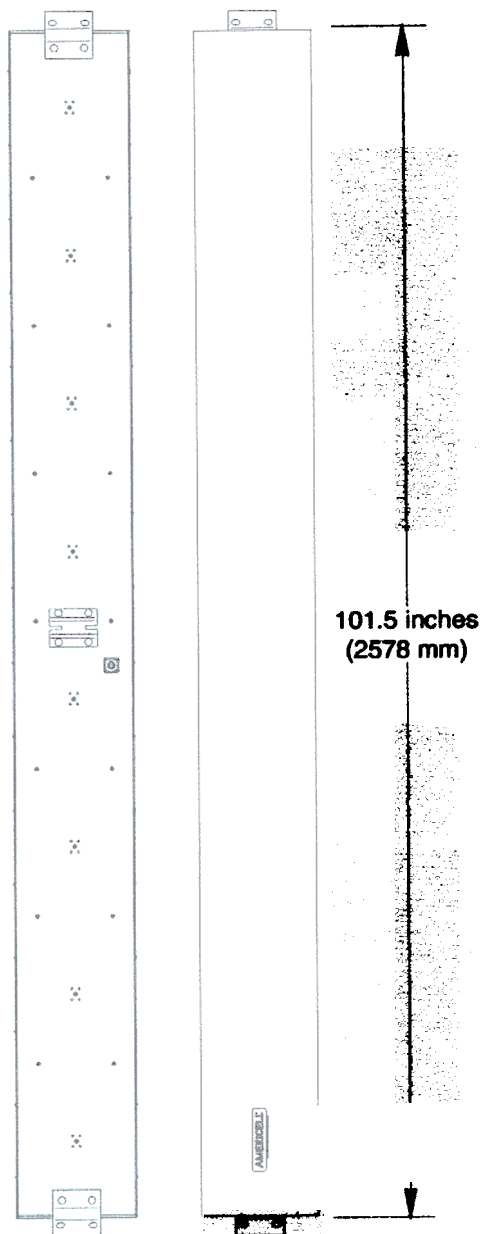
E-plane  
Vertical pattern – V-polarization

**AP9-455/200**  
**PANEL ANTENNA**  
9 dBd gain  
440–470 MHz



**Mounting Options:**

| Model         | Description  |
|---------------|--|
| AMB-8 (shown) | Mounting Kit for 2 to 4.6 inch (50 to 115 mm) OD mast.                                     |
| ASB-2         | Three-panel Sector Mounting Kit (120 deg. ea.) for 2.375 to 6 inch (60 to 152 mm) OD mast. |
| <b>TB-6B</b>  | <b>Tilt Mount Kit</b><br><b>0–7.5 degrees downtilt angle.</b>                              |



**Order Information:**

| Model        | Description                           |
|--------------|---------------------------------------|
| AP9-455/200D | Panel antenna with 7/16 DIN connector |

All specifications are subject to change without notice

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